

WHAT IS CLAIMED IS:

1 1. A mobile communication system by which a dedicated
2 physical data channel with error correction and a dedicated
3 physical control channel without error correction, both of the
4 forwardlink, are time-division multiplexed and transmitted from
5 a wireless base station apparatus to mobile station terminals,
6 comprising:

7 a power correcting unit which corrects transmission power
8 with the encoding gain of said dedicated physical data channel
9 being taken into consideration, and

10 a transmitting unit which transmits said dedicated
11 physical channels of the forward link with the corrected
12 transmission power.

1 2. The mobile communication system, as claimed in claim
2 1, wherein:

3 said power correcting unit corrects said transmission
4 power at each of transmission time intervals.

1 3. The mobile communication system, as claimed in claim
2 1, wherein:

3 said power correcting unit corrects the encoding gain of
4 the transmission power obtained by error correction processing
5 on said dedicated physical data channel and said dedicated
6 physical control channel on the basis of bit repetition/bit
7 thinning-out due to rate matching figured out from variations
8 in transmitted data quantity.

1 4. The mobile communication system, as claimed in claim

2 2, wherein:

3 said power correcting unit corrects the encoding gain of
4 the transmission power obtained by error correction processing
5 on said dedicated physical data channel and said dedicated
6 physical control channel on the basis of bit repetition/bit
7 thinning-out due to rate matching figured out from variations
8 in transmitted data quantity.

1 5. The mobile communication system, as claimed in claim

2 3, wherein:

3 said rate matching is to satisfy quality of service (QoS)
4 requirements for voice communication and packet communication
5 at the same time.

1 6. The mobile communication system, as claimed in claim

2 4, wherein:

3 said rate matching is to satisfy QoS requirements for voice
4 communication and packet communication at the same time.

1 7. The mobile communication system, as claimed in claim

2 1, wherein:

3 said mobile communication system utilizes the code
4 division multiple access (CDMA) formula.

1 8. The mobile communication system, as claimed in claim

2 2, wherein:

3 said mobile communication system utilizes the CDMA
4 formula.

1 9. The mobile communication system, as claimed in claim
2 3, wherein:

3 said mobile communication system utilizes the CDMA
4 formula.

1 10. The mobile communication system, as claimed in claim
2 4, wherein:

3 said mobile communication system utilizes the CDMA
4 formula.

1 11. The mobile communication system, as claimed in claim
2 5, wherein:

3 said mobile communication system utilizes the CDMA
4 formula.

1 12. The mobile communication system, as claimed in claim
2 6, wherein:

3 said mobile communication system utilizes the CDMA
4 formula.

1 13. A wireless base station apparatus by which a dedicated
2 physical data channel with error correction and a dedicated
3 physical control channel without error correction, both of the

4 forward link, are time-division multiplexed and transmitted to
5 mobile station terminals, comprising:

6 a power correcting unit which corrects transmission power
7 with the encoding gain of said dedicated physical data channel
8 being taken into consideration, and

9 a transmitting unit which transmits said dedicated
10 physical channels of the forward link with the corrected
11 transmission power.

1 14. The wireless base station apparatus, as claimed in
2 claim 13, wherein:

3 said power correcting unit corrects said transmission
4 power at each of transmission time intervals.

1 15. The wireless base station apparatus, as claimed in
2 claim 13, wherein:

3 said power correcting unit corrects the encoding gain of
4 the transmission power obtained by error correction processing
5 on said dedicated physical data channel and said dedicated
6 physical control channel on the basis of bit repetition/bit
7 thinning-out due to rate matching figured out from variations
8 in transmitted data quantity.

1 16. The wireless base station apparatus, as claimed in
2 claim 14, wherein:

3 said power correcting unit corrects the encoding gain of
4 the transmission power obtained by error correction processing

5 on said dedicated physical data channel and said dedicated
6 physical control channel on the basis of bit repetition/bit
7 thinning-out due to rate matching figured out from variations
8 in transmitted data quantity.

1 17. The wireless base station apparatus, as claimed in
2 claim 15, wherein:

3 saidratematching is to satisfy QoS requirements for voice
4 communication and packet communication at the same time.

1 18. The wireless base station apparatus, as claimed in
2 claim 16 wherein:

3 saidratematching is to satisfy QoS requirements for voice
4 communication and packet communication at the same time.

1 19. The wireless base station apparatus, as claimed in
2 claim 13 wherein:

3 said mobile communication system utilizes the CDMA
4 formula.

1 20. The wireless base station apparatus, as claimed in
2 claim 14 wherein:

3 said mobile communication system utilizes the CDMA
4 formula.

1 21. The wireless base station apparatus, as claimed in
2 claim 15, wherein:

3 said mobile communication system utilizes the CDMA
4 formula.

1 22. The wireless base station apparatus, as claimed in
2 claim 16 wherein:

3 said mobile communication system utilizes the CDMA
4 formula.

1 23. The wireless base station apparatus, as claimed in
2 claim 17 wherein:

3 said mobile communication system utilizes the CDMA
4 formula.

1 24. The wireless base station apparatus, as claimed in
2 claim 18 wherein:

3 said mobile communication system utilizes the CDMA
4 formula.

1 25. A power control method for a mobile communication
2 system by which a dedicated physical data channel with error
3 correction and a dedicated physical control channel without error
4 correction, both of the forward link, are time-division
5 multiplexed and transmitted from a wireless base station
6 apparatus to mobile station terminals, comprising steps of:
7 correcting transmission power with the encoding gain of
8 said dedicated physical data channel being taken into
9 consideration, and

10 transmitting said dedicated physical channels of the
11 forward link with the corrected transmission power.

1 26. The power control method, as claimed in claim 25
2 wherein:

3 said transmission power is corrected at each of
4 transmission time intervals by said step of correcting
5 transmission power.

1 27. The power control method, as claimed in claim 25
2 wherein:

3 the encoding gain of the transmission power obtained by
4 error correction processing on said dedicated physical data
5 channel and said dedicated physical control channel is corrected
6 by said step of correcting transmission power on the basis of
7 bit repetition/bit thinning-out due to rate matching figured
8 out from variations in transmitted data quantity.

1 28. The power control method, as claimed in claim 26
2 wherein:

3 the encoding gain of the transmission power obtained by
4 error correction processing on said dedicated physical data
5 channel and said dedicated physical control channel is corrected
6 by said step of correcting transmission power on the basis of
7 bit repetition/bit thinning-out due to rate matching figured
8 out from variations in transmitted data quantity.

1 29. The power control method, as claimed in claim 27
2 wherein:
3 said rate matching is to satisfy QoS requirements for voice
4 communication and packet communication at the same time.

1 30. The power control method, as claimed in claim 28
2 wherein:
3 said rate matching is to satisfy QoS requirements for voice
4 communication and packet communication at the same time.

1 31. The power control method, as claimed in claim 25
2 wherein:
3 said mobile communication system utilizes the CDMA
4 formula.

1 32. The power control method, as claimed in claim 26
2 wherein:
3 said mobile communication system utilizes the CDMA
4 formula.

1 33. The power control method, as claimed in claim 27
2 wherein:
3 said mobile communication system utilizes the CDMA
4 formula.

1 34. The power control method, as claimed in claim 28

2 wherein:

3 said mobile communication system utilizes the CDMA
4 formula.

1 35. The power control method, as claimed in claim 29

2 wherein:

3 said mobile communication system utilizes the CDMA
4 formula.

1 36. The power control method, as claimed in claim 30

2 wherein:

3 said mobile communication system utilizes the CDMA
4 formula.